

ABSTRACT

An amperage control for an electrically operated valve having a coil. A process control apparatus generates a plurality of electrical operating data signals, each signal corresponding to an operating parameter of the valve. A valve control apparatus transmits voltage to the coil of the valve to control the operation of the valve, the valve control apparatus receiving at least one operating data signal generated by the process control apparatus. A current flow is created in the coil of the valve upon receiving voltage from the valve control apparatus. A current senses the flow of current in the electrically controlled valve, and creates an electrical signal responsive to the current flow in the coil of the valve. When the signal created by the current sensing apparatus is applied to the valve control apparatus, the valve control apparatus modifies the operation of the valve responsive to the signal created by the current sensing apparatus.